

AMENDMENTS TO THE CLAIMS:

Please AMEND claims 9 and 10, and 16-22 as follows.

1 - 8. (Canceled)

9. (Currently Amended) ~~The A-stage~~ apparatus according to Claim 16, wherein said cooling unit ~~heat exchanger~~ is disposed near an outer periphery of said moving unit.

10. (Currently Amended) ~~The A-stage~~ apparatus according to Claim 16, further comprising a laser interferometer for measuring ~~the~~ a position of said moving unit.

11 - 15. (Canceled)

16. (Currently Amended) A stage apparatus comprising:

a base plate;

a moving unit movable along a surface of said base plate;

a linear motor which drives said moving unit ~~along a surface of a base plate and includes~~  
~~a coil unit in said moving unit~~ and includes a coil unit in said moving unit;

a gas bearing which supports said moving unit on the base plate; and

a cooling unit ~~heat exchanger~~ which cools said coil unit and is provided in said moving unit,

wherein said cooling unit ~~heat exchanger~~ cools a gas used by said gas bearing.

17. (Currently Amended) The A-stage apparatus according to Claim 16, wherein said cooling unit ~~heat exchanger~~ is disposed between said coil unit and a substrate mounted on said moving unit.

18. (Currently Amended) The A-stage apparatus according to Claim 16, further comprising a supply pipe which forms part of said gas bearing and is disposed adjacent to said cooling unit ~~heat exchanger~~.

19. (Currently Amended) The A-stage apparatus according to Claim 18, wherein said cooling unit ~~heat exchanger~~ uses a coolant, and a ~~the~~ direction in which the coolant flows is opposite to that in which the gas flows through said supply pipe.

20. (Currently Amended) The A-stage apparatus according to Claim 18, wherein said cooling unit ~~heat exchanger~~ uses a coolant, and at least a portion of said supply pipe is surrounded by the coolant.

21. (Currently Amended) ~~The A-stage~~ apparatus according to Claim 16, wherein said moving unit comprises a fine-motion actuator which moves a substrate mounted on said moving unit, and said cooling unit ~~heat exchanger~~ is disposed between said coil unit and said fine-motion actuator.

22. (Currently Amended) A stage apparatus comprising:  
a base plate;  
a first moving unit movable along a surface of said base plate;  
a linear motor which drives said first moving unit ~~along a surface of a base plate~~ and includes a coil unit in said first moving unit;  
a second moving unit which moves with respect to said first moving unit; and  
a cooling unit ~~heat exchanger~~ disposed between said first and second moving units, to absorb a heat transmission from said coil unit to said to second moving unit.

23. (Previously Presented) A stage apparatus according to Claim 22, wherein said second moving unit moves within a range smaller than that of said first moving unit.

24. (Previously Presented) A stage apparatus according to Claim 16, wherein said linear motor is a surface motor.

25. (Previously Presented) A stage apparatus according to Claim 22, wherein said linear motor is a surface motor.